

**In the Claims:**

Please cancel Claims 9, 18, 19, 26 and 27, without prejudice.

Please amend Claims 1, 2, 8, 10-13, 16, 24 and 29-33 as follows:

Sub B1  
A2  
1. (Amended) A notebook computer capable of receiving infrared signals from an infrared input device, comprising:

a computer base section containing a keyboard and having a base frame;

a display section, said display section comprising a display frame with a bezel holding a liquid crystal display, said display section coupled to said computer base by hinges; and

an infrared sensor attached to said notebook computer; wherein said infrared sensor is disposed on the display frame of said display section so that a wide angle infrared detection response is achieved.

2. (Amended) The notebook computer of Claim 1, wherein said infrared sensor is disposed on an upper portion of said frame of said display section.

Sub B1  
AB  
8. (Amended) The notebook computer of Claim 7, wherein said infrared sensors are disposed proximate to the hinge region of said display frame.

Sub B1  
A4  
10. (Amended) An input device for controlling positional information for a computer, comprising:

a housing;

a ball capable of being rotated to determine the cursor position, the ball coupled to said housing;

an optical encoder comprising photo-interruptors disposed in said housing, said optical encoder providing output signals in response to rotation of said ball; and

→ a control circuit disposed in said frame, said control circuit receiving as inputs said output signals of said optical encoder, said control circuit also capable of controlling the power to said photo-interruptors of said optical encoder;

wherein said control circuit conserves power by operating said optical encoder in a periodic-pulsed mode when said ball is at rest longer than a preselected time interval and said control circuit utilizes said signals of said encoder in said periodic-pulsed mode to determine when to resume a continuous position sensing encoder mode.

A4 11. (Amended) The input device of Claim 10, further comprising an infrared transmitter coupled to said housing to transmit data pulses corresponding to the output signals of said optical encoder in the position sensing mode.

12. (Amended) The input device of Claim 11, further comprising a range switch coupled to said housing, said range switch comprising at least two infrared transmitter power settings for said wireless transmitter.

13. (Amended) The input device of Claim 11 wherein the infrared transmitter transmits the data pulses as bytes with a start bit; and wherein no infrared data pulses are transmitted when said ball is in a quiescent state.

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Sub B1  
16. (Amended) A compact ergonomic multi-input infrared input device for a notebook computer designed to be operated in two different hand and finger positions, comprising:

AB a housing, said housing having a substantially planar bottom surface, a substantially planar top surface, flared sides, and a first end and a second end;

at least one mouse button coupled to said top surface of said housing proximate to said first end;

a mouse ball coupled to said bottom surface of said housing;

an optical encoder coupled to said mouse ball, said optical encoder comprising photo-interruptors to measure the motion of said mouse ball;

a second pointing device emulating the pointing function of a mouse disposed on the top surface of said housing; and

an infrared transmitter coupled to said first end of said housing to transmit motion information from said rotary encoders and said second pointing device;

wherein said housing is dimensioned so that said input device may be operated as a mouse with the index and middle fingers of the hand on the top surface of said housing and with a portion of the thumb along the edge of said housing; and

wherein said housing is further dimensioned so that said input device may be held along its bottom surface in the palm of a hand with the entire top surface accessible by the thumb.

24. (Amended) A multi-input infrared input unit for a notebook, comprising:  
a housing, said housing having a substantially planar bottom surface, a substantially planar top surface, flared sides, and a first end and a second end;  
at least one mouse button coupled to said top surface of said housing proximate to said first end;

a mouse ball coupled to said bottom surface of said housing;

an optical encoder coupled to said mouse ball, said optical encoder comprising photo-interruptors to measure the motion of said mouse ball;

a data input device to receive non-pointer related information, said data input device disposed on said housing; and

an infrared transmitter coupled to said first end of said housing to transmit digital data;

a control circuit coupled to said optical encoder and said data input device; and

a mode control switch coupled to said control circuit, said mode control switch acting to select a mouse mode and at least one other data input mode;

wherein said control circuit acts in said mouse mode to transmit infrared data pulses corresponding to the state of said optical encoder and said control circuit acts in said data input mode to transmit infrared data pulses corresponding to information received by said data input device.

29. (Amended) A notebook computer system, comprising:

an infrared input device having a first pointing device, said infrared input device transmitting positional control information as infrared signals;

a notebook computer comprising a computer base section with a second pointing device mounted on said computer base section and a display section comprising a frame with a bezel holding a liquid crystal display;

an infrared receiver coupled to said notebook computer to receive positional control information from said infrared input device; and

a signal arbitration circuit to determine how inputs from said first pointing device and said second pointing device are used to control pointer position;

wherein said infrared input device is dimensioned to fit into said computer base section of said notebook computer.

30. (Amended) The notebook computer system of Claim 29, comprising a third pointing device connected to an external port wherein said signal arbitration circuit determines how inputs from said first, second and third cursor pointing devices are used.

31. (Amended) The notebook computer system of Claim 30, wherein an arbitration criteria of said signal arbitration circuit is user selectable as to which of said first, second and third pointing devices have priority or are locked-out.

32. (Amended) The notebook computer system of Claim 31, wherein said second pointing device is always enabled and said arbitration criteria may be selected to lock-out said inputs from said infrared input device.

33. (Amended) The notebook computer system of Claim 29, wherein said notebook computer may be programmed to simultaneously accept inputs from both said second pointing device and said infrared input device.

Please add the following new claims:

Sub B1  
34. (new) A portable computer capable of receiving signals from a first detached input device by wireless transmission, comprising:

a computer base containing a second input device;

a display section, said display section comprising a display, said display section attached to said computer base; and

at least one receiver disposed on said display section, said at least one receiver receiving signals from said first detached input device by wireless transmission; wherein said at least one receiver is disposed so that a wide angle wireless detection response is achieved.

35. (new) The portable computer of Claim 34, comprising a hinge, wherein said hinge is attached to a lower portion of said display section, coupling said display section to said computer base, wherein said at least one receiver is disposed on an upper portion of said display section.

36. (new) The portable computer of Claim 34, comprising at least two receivers.

37. (new) The portable computer of Claim 34, wherein said display section is coupled to said computer base by a hinge and said receiver is disposed proximate to said hinge.

38. (new) A portable computer adapted to receive wireless signals from a first input device, comprising:

a computer base section containing a second input device;

a display section, said display section comprising a display, said display section attached to said computer base section; and

at least two receivers for receiving wireless signals from said first input device.

39. (new) The portable computer of Claim 38, wherein said display section comprises a display frame, and wherein at least one of said receivers is disposed on said display frame.

40. (new) The portable computer of Claim 38, wherein said display section comprises a display frame, and wherein said at least two receivers consist of two receivers disposed in said display frame.

41. (new) The portable computer of Claim 40, wherein said display section is coupled to said computer base section by one or more hinges and each of said sensors is disposed proximate to one of said one or more hinges.

42. (new) The input device of Claim 10, further comprising a wireless transmitter for transmitting data pulses corresponding to the output signals of said optical encoder in the position sensing mode.

43. (new) The input device of Claim 42, further comprising a range switch comprising at least two power settings for said wireless transmitter.

44. (new) The input device of Claim 42, wherein said wireless transmitter transmits the data pulses as bytes with a start bit; and wherein no data pulses are transmitted when said ball is in a quiescent state.

45. (new) The input device of Claim 44, further comprising a user settable identification code.

46. (new) The input device of Claim 44, further comprising a laser pointer.

47. (new) An input device comprising:  
a housing having top and bottom portions;  
a first pointing device, mounted on said bottom portion of said housing;  
a second pointing device, mounted on said top portion of said housing  
a transmitter to transmit information from said first and said second pointing devices;

wherein said housing is dimensioned so that said input device may be operated as a mouse; and

wherein said housing is further dimensioned so that said input device may be held along its bottom portion in the palm of a hand with the entire top portion accessible by a thumb.

48. (new) The input device of Claim 47, wherein said second pointing device is a touchpad.

49. (new) The input device of Claim 47, wherein said second pointing device is a trackball.

50. (new) The input device of Claim 47, wherein said second pointing device is an ergo track input device.

51. (new) The input device of Claim 47, wherein said second pointing device is an eraser-head type input device.

52. (new) The input device of Claim 47, comprising a laser pointer.

53. (new) A wireless input device for transmitting data to a computer, comprising:  
a housing,  
a pointing device for generating positional information, mounted on said housing;  
a non-pointing device mounted on said housing, for generating input information for the computer;  
a transmitter for transmitting data from said pointing and non-pointing devices;  
and  
a selector for choosing between operating said input device as said pointing device or as said non-pointing device.

54. (new) The input device of Claim 53, wherein said non-pointing device is a sound input means.

55. (new) The input device of Claim 53, wherein said non-pointing device is a joystick.

56. (new) A computer system, comprising:  
a remotely operable wireless input device having a first pointing device which transmits positional information;

a portable computer comprising a computer base, a second pointing device mounted on said computer base, a display and a receiver which receives said positional information from said input device; and

a signal arbitration circuit to determine how inputs from said first pointing device and said second pointing device are used to control pointer position;

wherein said input device is dimensioned to removably fit into said computer base.

57. (new) The computer system of Claim 56, comprising a third pointing device connected to an external port, wherein said signal arbitration circuit determines how inputs from said first, second and third pointing devices are used.

58. (new) The computer system of Claim 57, wherein an arbitration criteria of said signal arbitration circuit is user selectable as to which of said first, second and third pointing devices have priority or are locked-out.

59. (new) The computer system of Claim 58, wherein said second pointing device is always enabled and said arbitration criteria may be selected to lock-out inputs from said input device.



60. (new) The computer system of Claim 56, wherein said computer may be programmed to simultaneously accept inputs from both said second pointing device and said input device.

61. (new) A computer system, comprising:

a first input device having a housing having a top and a bottom; a first pointing device, mounted to said bottom of said housing; a second pointing device, mounted to said top of said housing, and a transmitter to transmit information from said first or second pointing devices; and

a portable computer having a computer base with a second input device mounted on said computer base, a display section connected to said computer base and a receiver receiving said information by wireless transmission;

wherein said computer base of said portable computer has a recess for receiving said first input device, wherein said recess is mounted in front of said second input device.

62. (new) The computer system of said claim 61, wherein said receiver is mounted on said display section.

63. (new) An input device, comprising:

a housing having a top and a bottom;

a mouse, mounted to said bottom of said housing; and

a touch pad, mounted to said top of said housing and being used for a pointing function.

64. (new) The input device of said claim 63, comprising a wireless transmitter to transmit information from said input device.

65. (new) A computer system, comprising:

a first input device comprising a housing, a pointing device and a transmitter to transmit information from said pointing device; and

a portable computer having a computer base with a second input device mounted